

Electrophoresis on Paper (Cont.)

CZECH/3451

Albuminous hormones	223
Hypophysin hormones	223
Gonadotrophin	223
Insulin	223
Hormone of the pituitary gland	224
Radioactive isotopes and their binding power on albumins	224
Albumin binding of vitamin B ₁₂ (intrinsic factor)	229
Binding power of pharmaceutical and other substances on albumins	229
Some examples of separation of blood albumins in pathological states	230
Korinek, J. Electrophoresis in Other Carriers and Electrophoresis Preparations	237
Electrophoresis in starch	237
Electrophoresis in a starch suspension with a buffer	237
Characteristics of starch	239
Dimensions of a starch block; its preparation	240
Introducing the sample for fractionation and setting up the block for electrophoresis	241
Electrode arrangement	243
Detection and elution of fractions	243
Electrophoresis in starch gels	246

Card 9/10

Electrophoresis on Paper (Cont.)

CZECH/3451

Electrophoresis in columns	253
Some other methods of electrophoresis	264
Continuous electrophoresis	266
Electrophoresis in agar gels	274
Preparation of agar gels	276
Separation	276
Detection of protein fractions	278
Immunity electrophoresis	279
Technique of immunity electrophoresis	284
Subject index	287
Author index	299

AVAILABLE: Library of Congress

Card 10/10

JM/fal
5-19-60

LUSTINEC, Jiri; FOKORNA, Vera; ~~RUZICKA, Jiri~~

increased sensitivity of the respiratory system of plants
toward ingibitoric acid toward fluoride. Biologia
plantarum 4 no.2:119-125. '62.

1. Institute of Experimental Botany of the Czechoslovak
Academy of Sciences, Praha - Dejvice, Na cvicisti 2
(for Lustinec and Fokorna).
2. Research Institute of Stomatology, Praha - Vinohrady,
Stalinova 48 (for Ruzicka).

Ruzicka, Jiri

CZECHOSLOVAKIA/Chemical Technology - Chemical Products and H-25
Their Application, Part 3. - Fats and Oils, Waxes,
Soaps, Detergents, Flotation Agents.

Abs Jour : Ref Zhur - Khimiya, No 14, 1958, 48307

Author : Jiri Ruzicka, Josef Severa

Inst : -

Title : Glycerin Losses at Its Production.

Orig Pub : Prumysl potravín, 1957, 8, No 11, 586-590

Abstract : The possible causes of glycerin losses and the measures
for their elimination or decrease are discussed.
Bibliography with 5 titles.

Card 1/1

5

L 17493-63

EWI(1)/BDS/EEC(b)-2 AFFTC/ASD/ESD-3/RADC P1-4/PJ-4

ACCESSION NR: AP3001735

Z/0014/63/000/005/0178/0179

68

AUTHOR: Holan, Vaclav (engineer), and Ruzicka, Jiri (graduate physicist)

TITLE: New Czechoslovak vacuum tubes, the 30SE51 and 31SE51 karcinotrons.

SOURCE: Sdelovaci technika, no. 5, 1963, 178-179

TOPIC TAGS: Vacuum tube, broad-band centimeter wave, carcinotron, 30SE51, 31SE51

ABSTRACT: [Summary of introduction and closing paragraphs] A wide use of centimeter waves in practice and research was the reason for developing a broad-band generator which can be tuned electronically. Vyzkumny ustav vakuove elektrotechniky (Vacuum Electrical Engineering Research Institute) developed two types of oscillators for the 10 and 6 centimeter wave bands. These new oscillators, called O-carcinotrons, or vacuum tubes with a feedback wave, can be tuned in a broad frequency band by changing the speed of the electron beam or the change of voltage on the acceleration grid. This type of tuning which can be of continuous or pulsating nature is very fast and within a range of approximately one octave. It can serve for the design of a number of new devices

Card 1/1

L 17493-63

ACCESSION NR: AP3001735

in the measuring instrument and radar fields. The use of dynamic methods will speed up considerable numbers of measurements which formerly had to be done piecemeal. The 30SE51 and 31SE51 tubes, characteristics of which are shown in Table 1 of the Enclosure, will replace some foreign tubes which are difficult to obtain in Czechoslovakia.

[Orig. art. has 6 figures and a table. The body of the article gives details of carcinotrons and applications, under the following subject headings:

Designs and Functions of Carcinotrons Operation
Solutions of Design-Engineering Problems
Technical Data
Conclusion].

ASSOCIATION: none

SUBMITTED: 00

SUB CODE: SD

DATE ACQ: 12Jun63

NO REF SOV: 000

ENCL: 01

OTHER: 000

Card 2/2

Ruzicka, J.

CZECHOSLOVAKIA / Chemical Technology. Chemical Products H
and Their Application. Synthetic Poly-
mers. Plastics.

Abs Jour: Ref Zhur-Khimiya, No 9, 1959, 35329.

Author : Ruzicka, J.

Inst : Institute of Nuclear Physics of the Czechoslovak
AS.

Title : The Application of Foamy Polystyrene in the
Technique of Extreme Cold.

Orig Pub: Strojirenstvi, 1959, 8, No 4, 298-301.

Abstract: At the Institute of Nuclear Physics of the Czech-
oslovak Academy of Sciences, the possibility of
the utilization of foamy plastics in extreme cold
was investigated. For the storage of liquefied
gases, cylindrical vessels from foamy polystyrene

Card 1/3

APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R001446220003-9
CZECHOSLOVAKIA / Chemical Technology. Chemical Products H
and Their Application. Synthetic Poly-
mers. Plastics.

Abs Jour: Ref Zhur-Khimiya, No 9, 1959, 35329.

Abstract: (I) were constructed with a volumetric capacity
of 25-77 kg./m³. The coefficient of heat con-
ductivity of I has been determined calorimetric-
ally (0.0208 Cal./m. hour °C), and the dependence
of the amount of liquid air loss (on account of
evaporation) on the vessel's thickness of vessel
and time was investigated. It was established
that the heat-insulating properties of the ves-
sels from I are inferior to those of Dewar's
glass flasks, but the foamy plastics are safe,
easy to handle, and may be prepared easily and
quickly of a requisite volume and shape. The
results of determining the heat-insulating prop-

Card 2/3

274

Card 3/3

Z/002/60/000/005/001/006
A205/A126

AUTHORS: Růžička, Jiří, and Šafrata, Stanislav

TITLE: All-State Conference on Low Temperatures in Prague

PERIODICAL: Věstník Československé akademie věd, no. 5, 1960, 511 - 515

TEXT: I. Celostátní konference o nízkých teplotách (Ist All-State Conference on Low Temperatures) was convened on September 19 - 21, 1960, in Prague in the building of the CSAV (Czechoslovak Academy of Science). It was organized by the "ÚJV - Ústav jaderného výzkumu ČSAV" (Nuclear Research Institute, ČSAV) in cooperation with the "Komise pro jadernou techniku při Československé vědeckotechnické společnosti" (Commission for Nuclear Engineering at the Czechoslovak Scientific-Technical Society). The conference was attended by 80 delegates of CSAV working sites, State Research Institutes, Institutes of Higher Education and industrial enterprises. A total of 20 reports were delivered on the following subjects: 1) Use of low temperatures in basic physical research; 2) use of low temperatures in engineering and industry; and 3) helium and nitrogen liquefiers used in the ČSSR and low-temperature laboratory techniques. The opening report on the

Card 1/5

Z/002/60/000/005/001/006
A205/A126

All-State Conference on...

significance of low temperatures in present day physics and engineering was read by V1 Šváb, Director of the Nuclear Research Institute, ČSAV. Reports presented on subject 1): St. Šafrata, Nuclear Research Institute ČSAV, read a report on low temperatures in nuclear physics and quoted practical examples. In a contribution for discussion, Zd. Kovář, Nuclear Research Institute, ČSAV, described the design of calorimeters with liquid nitrogen, used in dosimetry. J. Pačes, FU (Physical Institute), ČSAV, reported on studies concerning magnetism at low temperatures. L. Štourač, UTF (Institute of Technical Physics), ČSAV, reported on application of low temperatures to studies of physical properties of semi-conductors. M. Odehnal, Nuclear Research Institute, ČSAV, reported on paramagnetic resonance at low temperatures. M. Kolář, Nuclear Research Institute, ČSAV, reported on measuring of low temperatures. (The use of the temperature scale, approved by the VIth International Conference on Low Temperatures in Leiden, 1958, was recommended). A. Čížek, Natural Science Department of the MU (Abstractor's Note: extension unknown) in Brno, reported on resistometry of metals and alloys. Reports presented on subject 2): J. Růžicka, Nuclear Research Institute, ČSAV, reported on the use of low temperatures in production of

Card 2/5

Z/002/60/000/005/001/006
A205/A126

All-State Conference on...

heavy water. J. Veleta of the "Stalinovy závody" gave a survey on modern methods for large-scale production of oxygen, with special emphasis of the low-pressure method. A. Urban of the Research Institute of the "Královopolské strojírny" in Prague described the most modern Czechoslovak "NKP-5" low-pressure oxygen apparatus. L. Vinš of the "Závody vítězného února" in Hradec Králové described the influence of gas-mixture fractionation on the use of cooling cycles. Vl. Smolík of the "Závody vítězného února" in Hradec Králové reported on the design and on the materials used for production of low-temperature fractionating equipment. O. Scholz, SVÚMT (State Research Institute for Materials and Technology) in Prague, reported on methods and results of low-temperature material tests. Reports presented on subject 3): J. Prušák, Nuclear Research Institute, ČSAV, reported on the first Czechoslovak helium liquefier, produced according to Soviet and Czechoslovak documentation by the "Královopolské strojírny", Branch Plant in Děčín, put into operation at the Nuclear Research Institute in Řež near Prague on April 13, 1960. M. Křížek reported on the helium liquefier (product of the West-German firm Linde), which was put into operation at the Institute of Technical Physics, ČSAV, in August, 1960. V. Sahánek, Physiological Institute, ČSAV, described the hydrogen liquefier, produced by the .

Card 3/5

Z/002/60/000/005/001/006
A205/A126

All-State Conference on...

"Královopolské strojírny" in Děčín according to Soviet documentation, installed at the Physical Institute, ČSAV, in Prague. J. Nedvěd, Nuclear Research Institute, ČSAV, reported on possibilities of using liquefied helium in laboratories which have no own facilities for liquefaction, and recommended the establishment of centers, which supply liquid helium in Dewar vessels. M. Litomiský, Nuclear Research Institute, ČSAV, reported on low-temperature laboratory techniques. K. Málek of the "ČKD-Staligrad" described an 80 kw laboratory magnet for production of low temperatures by adiabatic demagnetization. A field trip was arranged on the last day of the conference to the Low-Temperature Section of the Institute for Technical Physics, ČSAV, and to the Physical Institute, ČSAV, in Prague. A resolution was signed, which emphasizes the significance of the 1st All-State Conference on Low Temperatures. Members of the conference expressed their disappointment, that the "ČKD-Stalingrad" Plant discontinued the production of laboratory magnets, which must now be imported. In case the production cannot be resumed by the "ČKD", it was recommended, that another producer be appointed by the Ministry of Heavy Engineering. It was mentioned in the discussion, that compressors, produced in the ČSSR, do not meet world standards,

Card 4/5

All-State Conference on...

Z/002/60/000/005/001/006
A205/A126

and new types with improved parameters should be developed. The metallurgical industry should be encouraged to produce more materials which are suitable to be used at low temperatures. It was also indicated that the next All-State Conference on Low Temperatures should be convened in 2 years.

Card 5/5

L 33991-66 IJP(c) GG

ACC NR: AP6025480

SOURCE CODE: CZ/0037/66/000/001/0027/0033

AUTHOR: Litomisky, Miroslav; Ruzicka, Jiri

158
B

ORG: Nuclear Research Institute, CSAV, Rez (Ustav jaderného výzkumu CSAV)

21

TITLE: Equipment for measuring superconducting properties of superconductors for strong magnetic fields

SOURCE: Ceskoslovensky casopis pro fysiku, no. 1, 1966, 27-33

TOPIC TAGS: strong magnetic field, conductor, superconductivity, measuring apparatus, electronic measurement, current density

ABSTRACT: The article describes equipment used for measurement of the critical current density of superconductors in a magnetic field at 4.2°K. Samples (wires or strips) can be measured on two different holders. The first is supplied with a current switch working in a helium bath so that during one experiment ten samples can be measured in constant fields up to 62 kG. In the second holder, three samples can be measured simultaneously in magnetic fields up to 83 kG. The results of some measurements are given. Orig. art. has: 7 figures. [Based on authors' Eng. abst.]

[JPRS: 35,386]

SUB CODE: 14, 20 / SUBM DATE: 12Feb65 / ORIG REF: 001 / OTH REF: 002

Card 1/1

2916 0857

L 3037-66 IJP(c)

ACC NR: AP6027364

SOURCE CODE: CZ/0037/65/000/004/0387/0388

AUTHOR: Litomisky, Miroslav; Ruzicka, Jiri

ORG: UJV CSAV, Roz

TITLE: Increase of field strength in a steadily operated solenoid

SOURCE: Coskoslovensky casopis pro fysiku, no. 4, 1965, 387-388

TOPIC TAGS: solenoid, magnetic field intensity, superconducting alloy, nickel containing alloy, zinc containing alloy

ABSTRACT: This brief report describes equipment which permits obtaining a considerable increase in the intensity of the magnetic field, required in studying the superconductive properties of Ni-Zr alloys. (Orig. art. has: 3 figures. [JPRS: 32,945]

SUB CODE: 09, 20, 11 / SUBM DATE: ²08Aug64 / ORIG REF: 001 / OTH REF: 001

Card 1/1

RUDEK, J.; RUDOLPH, M.

Antibiotics in the blood of psoriatic patients. Cesk. dermat.
40 no.6:398-401 D '65.

1. Dermato-venerologická klinika (prednosta prof. dr. G.
Lejhanec, DrSc.) a Chemický ústav (prednosta prof. dr. F.
Janáček, DrSc.) lékařské fakulty Palackého University v
Olomouci.

POKORNY, Jan; RUZICKA, Jiri.

Changes in rape oil operational solidification. From potraviny
15 no.3:392-393 Ag '64.

1. Higher School of Chemical Technology, Chair of Food Chemistry
and Testing, Prague (for Pokorny). 2. Severocesne tukove zavody
National Enterprise, Usti nad labem (for Ruzicka).

MULLER, Jindrich; RUZICKA, Josef; POUČIK, Josef

Experience in water consumption determination in tanneries.
Kozarstvi 13 no.8:251-253 Ag '63.

1. Centropjekt, n.p., Gottwaldov.

RUZICKA, K.

TECHNOLOGY

Periodical: SVET MOTORU. Vol. 12, no. 26, Dec. 1958.

RUZICKA, K. Already 100,000 JAWA-CZ motorcycles are on the highways of the German Democratic Republic; Czechoslovakia, greatest exporter of motorcycles. p. 803.

Monthly List of East European Accession (EEAI) LC, Vol. 8, no. 3
March 1959 Unclass.

CZECHOSLOVAKIA

VACEK, Bohumil, RUZICKA, Karel, and BLAHA, Frantisek [affiliation not given]

[Three Biographies]

Prague, Časopis lékařů českých, Vol CII, No 17, 26 April 63, pp 471-472.

Abstract: Short biographies of Jiri RIHA, MD, born 25 April 1883, Zoltan SYKORA, MD, PhD, born 2 March 1913 in Hrnčiarске Zaluzany, Slovakia, director of the Slovak Medical Library (Slovenská lekárska knižnica) in Bratislava, and the late Josef HALASKA, MD, 17 January 1913 - 28 March 1963.

1/1

RUZICKA, K.

"Golden miner's helmet." p. 524.

SVET MOTORU. (SVAZ PRO SPOLUPRACI S ARMADOU). Praha, Czechoslovakia, Vol. 9,
no. 17, Aug. 1955.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.
Uncl.

RUZICKA, K.

The Grand Prize of Czechoslovakia." p. 586

SVET MOTORU. Praha, Czechoslovakia, Vol. 9, No. 19, Sept., 1955

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September, 1959
Unclas

RUZICKA, K.

"Excellent start of our drivers. p. 268."

SVET MOTORU. Praha, Czechoslovakia, Vol. 13, No. 9, April 1959

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 6, June 1959
Unclas.

MUZICKA, K.

"Our drivers still leading in the 4th Schwerin Race." p. 327.

SVET MOTORU. (Svaz pro spolupraci s armadou). Praha, Czechoslovakia,
Vol. 13, No. 11, May 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8,
August 1959.
Uncla.

HUZICKA, K.

"5th circuit race in Slovacko." p. 467.

SVET MOTORU. (Svaz pro spolupraci s armadou). Praha, Czechoslovakia,
Vol. 9, No. 15, July 1955.

Monthly list of East European Accessions (EFAI), LC, Vol. 8, No. 6,
August 1959.
Uncla.

RUZICKA, K.

Present state of medical documentation in Czechoslovakia. Cas. lek.
cesk. 98 no.12:383-384 20 Mar 59.

1..(K II. celostatnimu sjezdu cs. knihovniku, konanemu ve snech 20.
rijna 1958 v Bratislave).

(BIBLIOGRAPHY,
med. documentation in Czech. (Cz))

111324, ...

Gizak, Macromid, and Roucka won the championship of the Republic. n. 713.
(NY TIMES, Vol. 10, No. 32, Nov 1956, Praha, Czechoslovakia)

CC: Monthly List of Best European Accessions (READ) LC, Vol. 6, No. 12, Dec 1957. Uncl.

1. 1956, ...

Continued for this year's Six-Day Race. n. 729. (CMT * DTKU, Vol. 10,
No. 23, Nov 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (MEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

RUZICKA, K.

Lectures on water management in Czechoslovak schools of higher education. p. 277
(GOSPODARKA WODNA, Vol. 16, No.7, July 1956, Warsaw, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No.9, Sept. 1957, Uncl.

RUZICKA, K.

Land reclamation in the area of the Hungry Steppe. p.122.
(Vodni Hospodarstvi, No. 5, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

RUZICKA, K.

Czechoslovak Forests Month. p.135.
(Vodni Hospodarstvi, No. 5, May 1957, Praha, Czechoslovakia)

SC: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

RUZICKA, K.

Radioisotopes in hydraulic engineering. p. 248.
(VONDI HOSPODARSTVI, no. 9, Sept. 1957, Praha, Czechoslovakia.)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, no. 12, Dec. 1957.
Uncl.

RUZICKA, K.

Sarka in flowers, dust, and really wild. p. 300. (Svet Motoru, Vol. 11,
No. 10, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

RUZICKA, K.

2d Victory Race.

(Svet Motoru, Vol. 11, No. 11, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

RUZICKA, K.

The Geneva Race as seen through the eyes of the manager and the technician. p.366.
(Svet Motoru, Vol. 11, No. 12, June 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

RU.IG.A, R.

Six-day race and a Scotch race in three days; the 15th Tatrzanski Raid, another success of our drivers. p. 524. (SVET MOTORU, Vol. 11, No. 17, Aug 1957, Praha, Czechoslovakia)

SD: Monthly List of East European Accessions (EEAL) IC, Vol. 6, No. 12, Dec 1957. Uncl.

53425

Z/008/60/054/010/001/002
E073/E535

26. 2264

AUTHOR: Růžicka, Jaromir 14

TITLE: Scintillation Head with a Hollow Scintillator for
Measuring the γ -Activities of Liquid and Solid
Specimens

PERIODICAL: Chemické listy, 1960, Vol.54, No.10, pp.1062-1063

TEXT: Application of a scintillation head with a hollow scintillator is advantageous, particularly since it enables measuring not only solid but also liquid specimens with geometries of almost 4 π . By suitable design it is possible to achieve that the changes in the measuring efficiency caused by random changes of the location of the specimens in the detector is smaller than the variations caused by the statistical character of the radioactive decomposition. Schematic descriptions of detectors with hollow crystals have appeared in monographs, for instance "Radiation Dosimetry" by J. G. Hine and G. L. Brownell and "Methods of Detection and Recording Ionization Radiation" by V. Petržílka, SNTL, Prague, 1959, whilst actual designs have been described in various papers (Refs.3-6). All the authors of these papers applied

Card 1/6

83426

Z/008/60/054/010/001/002
E073/E535

Scintillation Head with a Hollow Scintillator for Measuring the
Y-Activities of Liquid and Solid Specimens

photomultipliers, which are difficult to obtain in Czechoslovakia, and in some cases they also applied special cuvettes. In the design described by the author of this paper, the photomultiplier FEU-19M is used, whereby the design of the head has been specifically adapted for the Soviet scintillation apparatus SCh-4 which is currently used in Czechoslovakia. Although less effective than a NaI(Tl) detector, the author has chosen a plastic scintillator due to the fact that it costs less and can be worked more easily. The scintillation head (Fig.1) consists of a dural tube, which at one end has a narrowing cone, whilst at the other end it is provided with a thread and a nut. A cylindrical plastic scintillator (p-terphenyl in polystyrene produced by Tesla, Liberec, Přemysleni Plant) 50 mm diameter, 43 mm high with a 11 mm diameter, 24 mm deep cavity is placed inside the tube. At the bottom end a "umaplex" transparent material in the form of a truncated cone (25 mm high with diameters of 50 mm and 35 mm respectively) is placed. This transparent material must be completely free of

Card 2/6

59126

Z/008/60/054/010/001/002
E073/E535

Scintillation Head with a Hollow Scintillator for Measuring the
 γ -Activities of Liquid and Solid Specimens

bubbles and its surface must be carefully polished and the same applies to the plastic scintillator. The drilled face of the scintillator is protected from light by a 0.4 mm thick dural filter which is machined from a solid piece. The filter follows accurately the surface of the scintillator and is pressed onto it by a nut. During manufacture and assembly of the individual components it is necessary to ensure that the nut sits tightly on the dural filter, since otherwise traces of the penetrating light invalidate the results of the measurements and bring about a deterioration of the time stability of the entire apparatus. Silicon vaseline is a suitable material for optical connection between the scintillator, the material transparent to light and the photomultiplier. If the scintillation head is used in conjunction with the Sch-4 apparatus, a hole of 55 mm diameter is machined into the lid of the photomultiplier and the thus obtained nut is screwed tightly to the window of the photomultiplier. The specimens to be measured are placed into micro-cuvettes (10 x 70 mm) with an

Card 3/6

83426

Z/008/60/054/010/001/002

E073/E535

Scintillation Head with a Hollow Scintillator for Measuring the
γ-Activities of Liquid and Solid Specimens

average wall thickness of 180 mg/cm^2 ; the wall and the dural filter ensure total absorption of particles with energies up to 1 MeV. Of the micro-cuvettes those are chosen which have an approximately spherical bottom with uniformly thick walls. A maximum play of 1 mm between the cuvette walls and the walls of the crystal cavity is permissible. About 50% of the currently produced micro-cuvettes satisfy this requirement. The author chose cuvettes with a spherical bottom due to the fact that in measuring the radio-activity of small mercury drops or of metal electrolytically deposited on the tip of a wire, the specimens will always take up the same position inside the detector. The influence of the deviations from the average geometry on the efficiency of the measurement is less than $\pm 0.5\%$ for $4 \times 10^4 \text{ imp/min}$. There is a linear drop in the efficiency of the detector with increasing volume of the aqueous solution of the radio-isotope in the range 0.05 ml to 0.8 ml (Fig.2). The electronic part of the apparatus is made up of Soviet produced equipment, namely a SCh-4 scintillation

Card 4/6

83426

Z/008/60/054/010/001/002
E073/E535

Scintillation Head with a Hollow Scintillator for Measuring the γ -Activities of Liquid and Solid Specimens

counter, a linear amplifier with a USh-2 discriminator, a decade pulse counter PS 10 000. The resolution time of the apparatus, as verified by the method of two preparations, is 1 μ sec and, as a result of that, activities up to 9×10^4 imp/min can be measured without corrections. By means of the described scintillation head and the enumerated apparatus, measurements were made with sufficient sensitivity on several hundreds of specimens; the measuring errors did not exceed the above mentioned value. The efficiency of the equipment is approximately 10% for a background activity of 75 imp/min in a 3.5 cm thick lead sheathing for the radio-isotope ^{110}Ag . Fig.1 shows a line drawing of the scintillation head with a hollow crystal for measuring the γ -activity of liquid and gaseous specimens (a - light transparent material, b - scintillator, c - dural filter, d - textile-rubber insulating ring). Fig.2 shows a plot of the efficiency of the scintillation detector as a function of the volume of a suitable radio-isotope solution, $^{110}\text{AgNO}_3$, in the given case (A - number of

4

Card 5/6

83426

Z/008/60/054/010/001/002
EO73/E535

Scintillation Head with a Hollow Scintillator for Measuring the
γ-Activities of Liquid and Solid Specimens

impulses per minute vs. quantity of the aqueous solution of the
radio-isotopes in ml). Acknowledgments are expressed to O. Jech
for producing the equipment. There are 2 figures and 6 references:
1 Czech and 5 English.

ASSOCIATION: Katedra jaderné chemie, Fakulta technické a jaderné
fysiky, Praha
(Chair for Nuclear Chemistry, Department of
Technical and Nuclear Physics, Prague)

SUBMITTED: February 24, 1960

Card 6/6

RUZICKA, K.; MORAVEC, F.

How this year's Six-Day Race will be conducted. p. 553. (SVET MOTORS,
Vol. 11, No. 13, Aug 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC; Vol. 6, No. 12, Dec 1957. Uncl.

RUZICKA, K.

A successful cross-country race in Sedlcany. p. 557. (SVET MOTORU,
Vol. 11, No. 13, Aug 1957, Praha, Czechoslovakia)

CD: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

NEVOLE, S.;RUZICKA, K.

Medical documentation in the Czechoslovak Republic. Polski
tygod. lek. 6 no. 39:1282-1284 24 Sept. 1951. (CLML 21:3)

1. Of the Center of Medical Documentation in Prague.

RUZICKA, K.

"King of the steep hill races."

p. 40 (Svet Motoru) Vol. 12, no. 2, Jan. 1958
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

RUZICKA, K.

"The international Geophysical Year and hydrology."

p. 328 (Vodni Hospodarstvi) No. 12, Dec. 1957
Prague, Czechoslovakia

SO: Monthly index of East European Accessions (SEAI) LC. Vol. 7, no. 4,
April 1958

RUSTICKA, K.

The Ecce Homo Race.

P. 396, (Svet Matoru) Vol. 11, no. 13, June 1957, Praha, Czechoslovakia

SO: Monthly Index of East European Accessions (EAI) Vol. 6, No. 11 November 1957

RUZICKA, K.

Training young drivers.

P. 5. (SVET MOTORU.) (Praha, Czechoslovakia) Vol. 12, No. 1, Jan. 1968

SO: Monthly Index of East European Accession (EEAI) LC. Vol. 7, No. 5, 1958

RUZHICHKA, M. [Ruzicka, M.] (Praga)

Operation of the Czechoslovakian sector of the "Druzhba" pipeline.
Stroi. truboprov. 9 no.12:11 D '64. (MIRA 18:3)

RUZICKA, Karel

Systematic classification at medical libraries and documentation centers. Ces. lek. cesk. 93 no.51-52:1419-1422 24 Dec 54.

1. Ustav pro zdravotnickou dokumentaci.

(LIBRARIES, MEDICAL
classif. system)

KAREL, RUZICKA

(1)
- Ruzicka, Karel: Bibliographia Medica Cechoslovaca.
Vol. III. Prague: Centrum Documentacionis Med. 1952.
898 pp.

RUSIN, K.

Socialist competition in the post-war economy in 1954 in plants of the Ministry of Forestry and the Wood-Using Industry. P. 175.

LC: East European Accessions List, Vol. 3, No. 9, Sept. 1954, Lib. of Congress

RECTOR, K.

Success of our motorcyclists in the Netherlands. p. 394.

Castastrophe in Le Mans. p. 396.

STET MOTOW, Praha, Vol. 9, no. 13, June 1955.

SO: Monthly List of East European Accessions, (SEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

RULICKA, K.

Cross-country motorcycle race on a long track. p. 233.
SVET MOTORU, Praha, Vol. 9, no. 8, Apr. 1955.

CO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, no. 10, Oct. 1955,
Uncl.

STICKA, F.

Difficult test for men and machines. p. 329.
OVL: NOTOV, Praha, Vol. 9, no. 11, May 1955.

39: Monthly List of East European Accessions, (SEML), LC, Vol. 4, no. 10, Oct. 1955,
Encl.

RUZICKA, K.

"Central Bohemian Race", P. 487, (SVET MOTORU, Vol. 8, No. 16, July 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

RUZICKA, K.

Those who won the Strakonice Race. p.266. (Svet Motoru. Praha. Vol. 11, no. 9, Apr. 1957.)

SO: Monthly List of East European Accessions (EEAL) LC., Vol. 6, no. 7, July 1957. Uncl.

RUZICKA, K.

"5th Cross-Country Motorcycle Race In Svata Hora", P. 588, (SVET MOTORU,
Vol. 8, No. 19, Sept. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12,
Dec. 1954, Uncl.

RUZICKA, K.

"Grand Prix of Sweden", P. 520, (SVET MOTOPI, Vol. 8, No. 17, Aug. 1954,
Praha, Czechoslovakia)

SC: Monthly List of East European Accessions, (EFAL), IC, Vol. 4,
No. 1, Jan. 1955, Uncl.

ROZICKA, K.

"4th Cross-country Race of Erodec", P. 521, (SVET MOTOR, Vol. 8,
No. 17, Aug. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (BEAL), LC, Vol. 4,
No. 1, Jan. 1955, Uncl.

RUZIČKA K.

"All-state Contest of Military Preparedness in Banská Bystrica", P. 552,
(SVET MOTOBU, Vol. 8, No. 18, Aug. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EFAL), IC, Vol. 4,
No. 1, Jan. 1955, Uncl.

PIZICKA, K.

"7th Great Race in Jeseniky", P. 554, (SVET MOTORU, Vol. 8, No. 18, Aug. 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955, Uncl.

RUZICKA, K.

"2D Nachod Cross-Country Motorcycle Race", P. 493, (SVET MOTORU, Vol. 8, No. 16, July 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec. 1954, Uncl.

RUZICKA, K.

RUZICKA, K.

Documents of medical literature in the Health Document Center in
Prague. Cas. lek. cesk. 89 no.45:1271-1273 10 Nov 50.(GLML 20:4)

RUZICKA, K.

"Motorcycle Cross-country Race in Stribro." p. 749 (SVET MOTORU.
Vol. 8, No. 24, Nov. 1954, Praha, Czech)

So: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,
No. 4, April 1955, Uncl..

RUZICKA, K.

Significance of bibliographical new service in scientific work.
Bratisl. lek. listy 34 no.9:1114-1135 Sept 54.

1. Ustav pro zdravotnickou dokumentaci, riad. K.Ruzicka.
(BIBLIOGRAPHY,
list of Czech. & foreign med. periodicals & standard.
abbreviations)

RUZICKA, K.

"The 4th Holy Mountain Cross-Country Race." p. 558. (Svet Motoru. Vol. 7, no. 154, Sept. 1953. Praha.)

SO: Monthly List of East European Accessions, Vol. 3, no. 6, Library of Congress, June 1954.
Uncl.

RUZICKA, Karel

Medical documentation in institutions and in laboratories.
Bratisl. lek. listy 34 no.2:169-174 F '54.

1. Ustav pro zdravotnickou dokumentaci, prednosta K. Ruzicka.
(RECORDS, MEDICAL,)

RUZICKA, K.

"Socialist Competition in the Power Economy in 1954 in Plants of the Ministry of Forestry and the Wood-Using Industry." p. 175, Praha, Vol. 4, no. 4, Apr. 1954.

SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

HUZICKA, KARL

①
- Hužicka, Karel: Bibliographia Medica Cechoslovaca.
Vol. III. Prague: Centrum Documentacionis Med. 1952.
898 pp.

RUŽICKA, KAREL

②
Navrátil, Svatopluk, and Ružicka, Karel: Bibliographia
Medica Cechoslovaca. Vol. I. 1947. 491 pp. 1949.
Vol. II. 1948. 639 pp. 1950. Prague: Centrum Docu-
mentationis Med.

RUZICKA, K.

Dowsing. p.58. Directives for measuring the abundance of sources and ascertaining subterranean waters by sounding. p. 61.
(VODA., Vol. 33, no. 2, Feb. 1953, Czechoslovakia)

SO: Monthly List of East European Accession, Vol. 2 #8, Library of Congress,
August 1953, Uncl.

RUZICKA, Karel

Tasks and socialistic forms of work in bibliographical
service in research institutes. Cas. lek. cesk. 95 no.
21:571-575 25 May 56.

1. Ustav pro zdravotnickou dokumentaci.

(BIBLIOGRAPHY,

med., in Czech., principles of bibliographical
serv. (Cz))

HRUSA, Jan, Dr.; RUZICKA, Karel

Problems of terminology. Cas.lek.cesk. 91 no.16:487-488 18 Apr 52.

1. Ustav pro zdravotnickou dokumentaci.

(ANESTHESIOLOGY,
nomenclature in Czech.)

(NOMENCLATURE,
anesthesiol. in Czech.)

Ruzicka, K.

Ruzicka, K. Automobile drivers start. p. 264.

Vol. 10, no. 9, Apr. 1956

SVET MOTORU

TECHNOLOGY

Czechoslovakia

So: East European Accessions, Vol. 6, May 1957

No. 5

Ruzicka, K.

Ruzicka, K. Automobile drivers start. p. 264.
Strakonice motorcycle race. pl 266.
(ho-e). Long cross-country race in Plzen. p. 267.
CCZ motorcycles for the Six-Day Race in Scotland. p. 269.

Vol. 10, no. 9, Apr. 1956
SVET MOTORU
TECHNOLOGY
Czechoslovakia

So: East European Accessions, Vol. 6, May 1957
No. 5

Ruzicka, K.

Ruzicka, K. 14th Tatra Race: Czechoslovak drivers impressed Poland. p. 553.

Vol. 10, no. 18, Aug. 1956

SVET MOTORU

TECHNOLOGY

Czechoslovakia

So: East European Accessions, Vol. 6, May 1957
No. 5

Ruzicka, K.

Ruzicka, K. Six-day races in a nutshell. p. 457.

Vol. 10, no. 15, July 1956

SVET MOTORU

TECHNOLOGY

Czechoslovakia

So: East European Accessions, Vol. 6, May 1957
No. 5

BASTECKY, Jan; BRZEK, Vladimir; STEINHART, Leo; CERNOC, Zdenek; SKRIVANEK,
Ota; RUZICKA, Karel

Clinical evaluation of splenoportography. Cas.lek.cesk. 94 no.14:
359-365 1 Apr 55.

1. Z radiologicke kliniky klinicke nemocnice VIA a z chirurgicke
kliniky klinicke nemocnice VIA v Hradci Kralove.
(SPLEEN, radiography,
splenoportography, clin. evaluation)

RUZICKA, Z.

Transformation of nature. p. 66.

Vol. 4, no. 3, Mar. 1954
VODNI HOSPODARSTVI
Praha, Czechoslovakia

Source: East European Accession List. Library of Congress
Vol. 5, no. 3, August 1956

RUZICKA, Jiri

Progress in the production of heavy water by the distillation of hydrogen. Jiri Růžicka (Czechoslovak Acad. Sci., Prague). *Jaderná energie* 5, 330-4 (1959).—Progress in the manuf. of D₂O by distn. of H between 1955 and 1958 is reviewed. Attention is given to the construction of distn. columns, purification of raw H (O removed catalytically, other gases by freezing out), thermal insulation (recommended solution: 2 layers, each with a powd. solid in a gas at low pressure, e.g. silica gel or Santocel in H on the inside and perlite in N on the outside), and materials and construction of expanders. This method is cheaper than other methods for the manuf. of D₂O. H. Newcombe—

2-BK(JW)

B5H

REMIČKA, K.

Virgin forests. p. 192.

Vol. 4, no. 5, May 1954
VODNI HOSPODÁŘSTVÍ
Praha, Czechoslovakia

Source: East European Accession List. Library of Congress
Vol. 5, No. 3, August 1956

RODINA, E.

Complexity of the water economy. p. 207.

Vol. 4, no. 7, July 1954
VODNI HOSPODARSTVI
Praha, Czechoslovakia

Source: East European Accession List. Library of Congress
Vol. 5, No. 3, August 1956

RECHTA, K.

River basins and water economy. p. 315.

Vol. 4, no. 10, Oct. 1954

RODNI ROZPOUSTVÍ

Frcha, Czechoslovakia

Source: East European Accession List. Library of Congress
Vol. 5, No. 8, August 1956

RUBICNA, P.

History of fishponds. p. 365.

Vol. 4, no. 12, Dec. 1954
VODNI HOSPODARSTVI
Praha, Czechoslovakia

Source: East European Accession List. Library of Congress
Vol. 5, No. 8, August 1956

RUMI NA, K.

Development of control provisions in the distribution of electricity in factories
under the Ministry of Light Industry. p. 354.

Vol. 5, no. 9, Sept. 1955
ELEKTROTECHNICKY OBRZOR
Praha, Czechoslovakia

Source: East European Accession List. Library of Congress
Vol. 5, No. 8, August 1956

RUZICKA, K.

The exhibition "Living Water." p. 425.

Vol. 5, no. 12, Dec. 1955
VODNI HOSPODARSTVI
Praha, Czechoslovakia

So: Eastern European Accession Vol. 5 No. 4 April 1956

RUZICKA, KAREL.

Vodni hospodarstvi. (Vyd. 1.) Praha, Statni nakl. technicke literatury
1956. 245 p. (Water economy. 1st ed. maps, graphs, tables)

SO: Monthly List of East European Accessions (EAL), LC, Vol. 5, no. 12
December 1956

RUZICKA, K.

RUZICKA, K. Is there any relation between the hydrogen bomb and hydrometeorological anomalies? p. 148. Vol. 9, no. 5/6. Dec. 1956. METEOROLOGICKE ZPRAVY. Praha, Czechoslovakia.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

RUZICKA, K.

RUZICKA, K. 8th Tulpen-Rallye Race. p. 366

Vol. 10, no. 12, June 1956
SVET MOTORU
TECHNOLOGY
Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

RUZICKA, K.

RUZICKA, K. Six days of a victorious fight. p. 648
Inclined-track races. p. 660

Vol. 10, no. 21, 1956, Oct.
SVET MOTORU
TECHNOLOGY
Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

RUZICKA, L.; MULLER, C.

Demographic survey of aging in women in Czechoslovakia.
Cesk. gynek. 30 no.6:437-441 Ag '65.

1. Katedra zdravotnictvi lek. fak. hyg. Karlovy University
v Praze (vedouci prof. dr. F. Blaha).

RUSTICKA, K.

Development of the drinking-water supply in the world and in our country. p. 118.

Vol. 35, no. 4, Apr. 1956

VODA

Praha, Czechoslovakia

Source: East European Accession List. Library of Congress
Vol. 5, No. 8, August 1956

RUZICKA, Karel, inz., dr. (Praha)

Air pollution with regard to the conservation of natural environment.
Tech praca 14 no.2:83-85 F '62.

RUZICKA, Karel

Soviet drivers behind the steering wheels of Czechoslovak cars. Siln doprava 11 no.11:15 N '63.

RUZICKA, L.

Biogenetic isoprene principle. Tehnika Jug 18 no.10:Supplement:
Hemindustrija 17 no.10:1929 0'63.

RUZICKA, L.

CZECHOSLOVAKIA

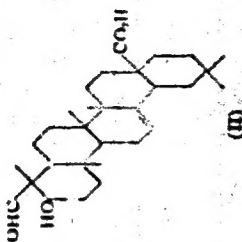
CIZKOVA-PISAROVICOVA, J., MD., Dr. Sc; URYSOVA, K; ZEMELKA,
L.

1. Children's Clinic LFH KU (Detaka klinika LFH KU);
2. Institute of Experimental Botany CSAV (Ustav
experimentální botaniky CSAV); 3. Chair of Sani-
tation (Katedra zdravotnictví), Brno

Prague
Brno, Vnitřní lékařství, No 8, 1963, pp 739-742

"Growth Inhibition in Thyroid Gland Disorders."

Triphenyl, CLVII. The relationship between *Erythro*, *hydroquinone*, and *quillate* acid. L. Kuriyama, H. Hiroshi, E. C. Taylor, A. Meyer, and O. Jeger. *Collection Chim. Japon.* Chem. Commun. 15, 853-8 (1951) (in German); cf. C.A. 45, 1940b; 46, 6621c. — By the synthesis of *bodeadidol* (2,2,2-trihydroxy-3,3,3-octene) (I) from *quillate* acid (II), the carboxyl group in II was shown to be located on the C atom 1.



Structure of II m. 180-7° (decolor.) (C.A. 21, 580° reported m. 250°). Diacetylhydroquinone acid (III), prep. from 10 g. II diacetate by hydrogenation with Pt (yield, 9 g.) (MeCO), m. up to 180° (from MeCO); 3.5 g. III, 80 ml. AcO and 10 ml. pyridine reduced overnight gave triacetylhydroquinone acid, which could not be crystal. and for the next step, 1.2 g. of the crude comp., 2.5 g. SOCl₂, 5 ml. dry CCl₄, and 5 drops pyridine were kept at the b.p. 21 hrs., and the product taken up in Et₂O, washed with 1% NaOH, dried, HCl, and H₂O, and crystal. 4 times from CH₂Cl₂-petr. ether, giving triacetylhydroquinone chloride (III), m. 128-34° (decolor.) (c 1.16). Reduction of III by the Rosenmund method and chromatographic sep. yielded 840 mg. crystal, recrystd. several times from CH₂Cl₂-petr. ether, of triacetylhydroquinone aldehyde (IV), m. 133-4° (decolor.) (c 0.86); acetic m. 206-7° (decolor.) (c 1.18). Wolff-Kishner reduction of 220 mg. IV at 200° yielded 2,16,23-trihydroxy-3,4,14-trien-5-ene (V), m. 254-5° (from MeCO-H₂O), (decolor.) (c 0.86). V triacetal, could not be crystal., (decolor.) (c 1.61); 200 mg. in 8 ml. MeCO oxidized with 100 mg. chromic acid at the b.p. for 45 min. and the neutral portion crystal. 4 times from MeOH gave the acetone derm. (VI), m. 177-83° (decolor.) (c 0.77, 1.28) of 2,16,23-trihydroxy-3,4,14-trien-5-ene (VII), m. 206-9° (decolor.) (c 1.23). Wolff-Kishner reduction of VII at 230-40° and chromatographic sep. gave I, m. 248-9° (decolor.) (c 0.726); dibenzate, m. 187-8° (decolor.) (c 0.879). Harold H. Levine

1ST AND 2ND PERIODS										3RD AND 4TH PERIODS									
COMMON ELEMENTS																			
COMMON VARIABLES INDEX																			
BC 0-4 From Robinson, Robinson, in animal hormones. I. Review, 1961, 1962, 1963, 1964, 1965. A review, showing relationships between chemical compounds, terpenes and carbohydrates, and animal hormones and other sterols. R. T.																			
AS A-SLA METALLURGICAL LITERATURE CLASSIFICATION 1960-1970 1971-1980																			

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26																									
1 2 3 4 5 6 7 8 9 10 11 12 13													14 15 16 17 18 19 20 21 22 23 24 25 26												
10 A simple conversion of <i>trans</i>-dehydroandrosterone into <u>pregnane derivatives</u>. L. Ruzicka and H. F. Mehlisch. <i>Nature</i> 142, 390 (1938). E. D. Walter																									
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION																									